

ZIMMER, E. A., E. H. ROALSON, L. E. SKOG, J. K. BOGGAN, AND A. IDNURM. 2002.

Phylogenetic relationships in the Gesnerioideae (Gesneriaceae) based on nrDNA ITS and cpDNA *trnL-F* and *trnE-T* spacer region sequences. *American Journal of Botany* 89(2): 296-311.

Subfamilies, tribes, and species of Gesneriaceae included in the analyses. The classification mostly follows Burt and Wiehler (1995) in content. Species treated as belonging to a different genus than their treatment by Burt and Wiehler (1995) have the genus sensu Burt and Wiehler in parentheses. All vouchers are deposited at US. Samples taken from live material growing at the U.S. Botany Research Greenhouses (USBRG) are designated by their accession number and a voucher collection, when present. Live collections received from the Montreal Botanical Garden are noted with their accession number (MBG).

Subfamily: Tribe	Species	Voucher	GenBank accessions (ITS; <i>trnL-F</i> ; <i>trnE-T</i>)
Cyrtandroideae Endl.: Didymocarpeae Endl.	<i>Streptocarpus primulifolius</i> Gand.	USBRG 94-096; <i>Skog 7868</i>	GBAN-AY047039; GBAN-AY047098; GBAN-AY047157
Cyrtandroideae: Trichosporeae Nees	<i>Aeschynanthus hildebrandii</i> Hemsl.	USBRG 94-254; <i>Skog 7777</i>	GBAN-AY047040; GBAN-AY047099; GBAN-AY047158
Gesnerioideae Dumort.: Beslerieae Bartl. & H.L. Wendl.	<i>Besleria labiosa</i> Hanst.	USBRG 85-093; <i>Skog 7631</i>	GBAN-AY047041; GBAN-AY047100; GBAN-AY047159
	<i>Gasteranthus quitensis</i> Benth.	USBRG 95-152; <i>Mendoza-T. et al.</i> <i>525</i>	GBAN-AY047042; GBAN-AY047101; GBAN-AY047160
	<i>Reldia minutiflora</i> (L.E.Skog) L.P.Kvist & L.E.Skog var. <i>minutiflora</i>	<i>Hammel 16030</i>	GBAN-AY047043; GBAN-AY047102; GBAN-AY047161
Gesnerioideae: Episcieae Endl.	<i>Alloplectus bolivianus</i> (Britton) Wiehler	USBRG 95-140; <i>Mendoza-T. et al.</i> <i>506</i>	GBAN-AY047097; GBAN-AY047156; GBAN-AY047215
	<i>Chrysothemis pulchella</i> (Donn ex Sims) Decne.	USBRG 82-092; <i>Skog 5714</i>	GBAN-AY047085; GBAN-AY047144; GBAN-AY047203
	<i>Codonanthe carnosa</i> (Gardner) Hanst.	USBRG 94-471; <i>Skog 8054</i>	GBAN-AY047088; GBAN-AY047147; GBAN-AY047206
	<i>Columnnea (Pentadenia)</i> <i>spathulata</i> Mansf.	USBRG 95-153; <i>Skog 7820</i>	GBAN-AY047092; GBAN-AY047151; GBAN-AY047210

	<i>Corytoplectus cutucuensis</i> Wiehler	USBRG 94-021; <i>Dunn 9405017</i>	GBAN-AY047094; GBAN-AY047153; GBAN-AY047212
	<i>Drymonia serrulata</i> (Jacq.) Mart.	USBRG 94-109; <i>Skog 7876</i>	GBAN-AY047093; GBAN-AY047152; GBAN-AY047211
	<i>Episcia lilacina</i> Hanst.	USBRG 95-071; <i>Skog 8132</i>	GBAN-AY047091; GBAN-AY047150; GBAN-AY047209
	<i>Episcia (Alsobia) punctata</i> (Lindl.) Hanst.	USBRG 77-103; <i>Skog 5349</i>	GBAN-AY047090; GBAN-AY047149; GBAN-AY047208
	<i>Nautilocalyx melittifolius</i> (L.) Wiehler	USBRG 98-256; <i>Skog 7852</i>	GBAN-AY047086; GBAN-AY047145; GBAN-AY047204
	<i>Nematanthus strigillosus</i> (Mart.) H.E.Moore	USBRG 94-217; <i>Skog 7751</i>	GBAN-AY047089; GBAN-AY047148; GBAN-AY047207
	<i>Neomortonia nummularia</i> (Hanst.) Wiehler	USBRG 94-522; <i>Skog 7763</i>	GBAN-AY047096; GBAN-AY047155; GBAN-AY047214
	<i>Neomortonia rosea</i> Wiehler	USBRG 96-103; <i>Skog 8113</i>	GBAN-AY047095; GBAN-AY047154; GBAN-AY047213
	<i>Paradrymonia binata</i> Wiehler	USBRG 96-092; Gesneriad Research Foundation 9071, clonotype material of type " <i>Wiehler</i> <i>9205</i> ," US isotype cited but not received	GBAN-AY047087; GBAN-AY047146; GBAN-AY047205
Gesnerioideae: Gesnerieae	<i>Gesneria acaulis</i> L.	USBRG 97-116; not vouchered; MBG 140-69	GBAN-AY047045; GBAN-AY047104; GBAN-AY047163
	<i>Gesneria christii</i> Urb.	USBRG 94-507; <i>Skog 8142</i>	GBAN-AY047046; GBAN-AY047105; GBAN-AY047164
	<i>Gesneria citrina</i> Urb.	USBRG 97-206; not vouchered	GBAN-AY047054; GBAN-AY047113; GBAN-AY047172
	<i>Gesneria cuneifolia</i> (DC.) Fritsch	USBRG 98-006; not vouchered	GBAN-AY047047; GBAN-AY047106; GBAN-AY047165

	<i>Gesneria humilis</i> L.	USBRG 97-118; not vouchered; MBG 111-91	GBAN-AY047051; GBAN-AY047110; GBAN-AY047169
	<i>Gesneria pedicellaris</i> Alain	USBRG 97-115; not vouchered; MBG 932-71	GBAN-AY047049; GBAN-AY047108; GBAN-AY047167
	<i>Gesneria pedunculosa</i> (DC.) Fritsch	USBRG 97-204; <i>Skog 8084</i>	GBAN-AY047052; GBAN-AY047111; GBAN-AY047170
	<i>Gesneria reticulata</i> (Griseb.) Urb.	USBRG 97-100; not vouchered	GBAN-AY047048; GBAN-AY047107; GBAN-AY047166
	<i>Gesneria ventricosa</i> Sw.	USBRG 97-119; not vouchered; MBG 314-64	GBAN-AY047053; GBAN-AY047112; GBAN-AY047171
	<i>Gesneria viridiflora</i> (Decne.) Kuntze ssp. <i>sintenisii</i> (Urb.) L.E.Skog	USBRG 97-101; not vouchered	GBAN-AY047050; GBAN-AY047109; GBAN-AY047168
	<i>Rhytidophyllum</i> (<i>Gesneria</i>) <i>auriculatum</i> Hook.	USBRG 97-113; not vouchered; MBG 937-71	GBAN-AY047058; GBAN-AY047117; GBAN-AY047176
	<i>Rhytidophyllum</i> (<i>Gesneria</i>) <i>exsertum</i> Griseb.	USBRG 97-114; <i>Skog 8050</i>	GBAN-AY047055; GBAN-AY047114; GBAN-AY047173
	<i>Rhytidophyllum</i> (<i>Gesneria</i>) <i>rupicola</i> (C.Wright) C.V.Morton	USBRG 97-117; not vouchered; MBG 113-91	GBAN-AY047057; GBAN-AY047116; GBAN-AY047175
	<i>Rhytidophyllum</i> (<i>Gesneria</i>) <i>tomentosum</i> (L.) Mart.	USBRG 97-111; <i>Skog 7865</i>	GBAN-AY047056; GBAN-AY047115; GBAN-AY047174
	<i>Rhytidophyllum</i> (<i>Gesneria</i>) <i>vernicosum</i> Urb. & Ekman	USBRG 97-112; not vouchered; MBG 1267-66	GBAN-AY047059; GBAN-AY047118; GBAN-AY047177
Gesnerioideae: Gloxinieae Fritsch	<i>Achimenes candida</i> Lindl.	USBRG 96-150; <i>Skog 7840</i>	GBAN-AY047065; GBAN-AY047124; GBAN-AY047183
	<i>Achimenes cettoana</i> H.E.Moore	USBRG 94-235; <i>Skog 7991</i>	GBAN-AY047066; GBAN-AY047125; GBAN-AY047184
	<i>Achimenes misera</i> Lindl.	USBRG 94-475; <i>Skog 7903</i>	GBAN-AY047067; GBAN-AY047126; GBAN-AY047185
	<i>Anodiscus xanthophyllus</i> (Poepp.) Mansf.	USBRG 99-041; <i>Skog 8140</i>	GBAN-AY047074; GBAN-AY047133; GBAN-AY047192

<i>Diastema racemiferum</i> Benth.	USBRG 96-258; <i>Skog 8052</i>	GBAN-AY047069; GBAN-AY047128; GBAN-AY047187
<i>Eucodonia andrieuxii</i> (DC.) Wiehler	USBRG 92-022; <i>Skog 7620</i>	GBAN-AY047060; GBAN-AY047119; GBAN-AY047178
<i>Eucodonia verticillata</i> (Mart. & Galeotti) Wiehler	USBRG 86-097; <i>Skog 7714</i>	GBAN-AY047061; GBAN-AY047120; GBAN-AY047179
<i>Gloxinia perennis</i> (L.) Fritsch	USBRG 95-081; <i>Skog 7723</i>	GBAN-AY047071; GBAN-AY047130; GBAN-AY047189
<i>Gloxinia purpurascens</i> (Rusby) Wiehler	USBRG 98-079; <i>Skog 7839</i>	GBAN-AY047072; GBAN-AY047131; GBAN-AY047190
<i>Gloxinia sarmentiana</i> Gardner ex Hook.	USBRG 00-148; <i>Peixoto 715</i> (original source); not vouchered	GBAN-AY047079; GBAN-AY047138; GBAN-AY047197
<i>Koellikeria erinoides</i> (DC.) Mansf.	USBRG 77-232; <i>Skog 7596</i>	GBAN-AY047073; GBAN-AY047132; GBAN-AY047191
<i>Kohleria rugata</i> (Scheidw.) L.P.Kvist & L.E.Skog	USBRG 95-010; <i>Skog 7766</i>	GBAN-AY047075; GBAN-AY047134; GBAN-AY047193
<i>Kohleria villosa</i> (Fritsch) Wiehler	USBRG 98-031; <i>Skog 8041</i>	GBAN-AY047076; GBAN-AY047135; GBAN-AY047194
<i>Monopyle macrocarpa</i> Benth.	USBRG 95-060; <i>Skog 7880</i>	GBAN-AY047070; GBAN-AY047129; GBAN-AY047188
<i>Moussonia septentrionalis</i> (Denham) Wiehler	USBRG 99-001; <i>Skog 8045</i>	GBAN-AY047068; GBAN-AY047127; GBAN-AY047186
<i>Niphaea oblonga</i> Lindl.	USBRG 78-354; <i>Skog 5336</i>	GBAN-AY047064; GBAN-AY047123; GBAN-AY047182
<i>Paliavana prasinata</i> (Ker Gawl.) Fritsch	USBRG 78-360; <i>Skog 5399</i>	GBAN-AY047081; GBAN-AY047140; GBAN-AY047199
<i>Pearcea abunda</i> (Wiehler) L.P.Kvist & L.E.Skog	USBRG 87-032; <i>Skog 8019</i>	GBAN-AY047077; GBAN-AY047136; GBAN-AY047195
<i>Phinaea ecuadorana</i> Wiehler	USBRG 98-008; <i>Skog 8039</i>	GBAN-AY047078; GBAN-AY047137; GBAN-AY047196

	<i>Sinningia cooperi</i> (Paxton) Wiehler	USBRG 94-340; <i>Skog</i> 7808	GBAN-AY047082; GBAN-AY047141; GBAN-AY047200
	<i>Sinningia incarnata</i> (Aubl.) Denham	USBRG 87-059; <i>Skog</i> 7784	GBAN-AY047083; GBAN-AY047142; GBAN-AY047201
	<i>Sinningia lindleyi</i> Schauer	USBRG 97-033; <i>Skog</i> 7806	GBAN-AY047084; GBAN-AY047143; GBAN-AY047202
	<i>Smithiantha aurantiaca</i> Wiehler	USBRG 96-392; <i>Skog</i> 7834	GBAN-AY047063; GBAN-AY047122; GBAN-AY047181
	<i>Smithiantha canarina</i> Wiehler	USBRG 94-039; <i>Skog</i> 7684	GBAN-AY047062; GBAN-AY047121; GBAN-AY047180
	<i>Vanhouttea lanata</i> Fritsch	USBRG 94-040; <i>Skog</i> 7712	GBAN-AY047080; GBAN-AY047139; GBAN-AY047198
Gesnerioideae: Napeantheae Wiehler	<i>Napeanthus jelskyi</i> Fritsch	USBRG 94-511; <i>Skog</i> 7697	GBAN-AY047044; GBAN-AY047103; GBAN-AY047162
